0300 0400

Page 1 of 8

OIPE

P.5

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/003,132

DATE: 12/12/2001 TIME: 14:26:53

Input Set : A:\00-62.txt

Output Set: N:\CRF3\12112001\I003132.raw



		.440.				_	_	•	_									ا سط
	_	<110					, Br	ıan .	Α.									
	5			0, Z			h a m 1 :	173										
	6	<120		oemai				_	מספנו	TTTN	пом	OT 0C	7011	D 5				
		<130							UKOP.	TTTN	пон	OLOG	200	6.5				
C>		<140							MBFD	. 119	/10/	003	122					
		<141										003,	172					
		<150										9.00	4					
		<151									-,	,,,,,,	-					
		<160																
		<170								ows '	Vers:	ion .	3.0					
	19	<210	> SE	Q ID	NO:	1												
	20	<211	> LE	NGTH	: 31	51												
	21	<212	> TY	PE:	ANC													
		<213> ORGANISM: Homo sapiens																
		<220> FEATURE: <221> NAME/KEY: CDS																
		<222					(-	2223)									
		<400																C 0
	29	-						_									aagctg	60 111
	30 31	geg	ccca	geg g	gggu												g gcg u Ala	111
	32					1	L va	I PI	O GI	y A.I.	a AI	g GI	у ст	y GI	y A10		u Ala	
	34	caa	act	acc	σσσ		aac	ctc	cta	act	ttσ	cta	ctc	aca		tcc	acc	159
	35															Ser		
	36	9		15	U -1	5	011		20					25				
	38	ccq	ctc		ctq	cag	qcq	qaq	qaq	ctq	ggt	gat	qqc	tqt	qqa	cac	cta	207
	39															His		
	40		30					35					40					
	43				_	-	_			_			-			ccc		255
	44		Thr	Tyr	Gln	Asp		Gly	Thr	Met	Thr		Lys	Asn	Tyr	Pro	_	
	45	45					50					55					60	
	47							-	_	-	_				_	cca	_	303
	48 49	Thr	Tyr	Pro	Asn	H1S	Thr	vaı	Cys	GIU	туs 70	Thr	тте	Thr	val	Pro 75	Lys	
	51	aaa	222	202	at a		ata	200	++~	~~~		++~	ant-	2+0	~ a a	tcc	a a a	351
	52															Ser		221
	53	GLY	цуз	nig	80	110	Бец	nrg	Бец	85	nop	Leu	пор	110	90	JCI	0.111	
	55	acc	tat	act		gac	tat	ctt	ctc	-	acc	agc	tct	tca		caa	tat	399
	56															Gln		
	57		-	95		-	•		100					105	~		-	
	59	ggt	cca	tac	tgt	gga	agt	atg	act	gtt	ccc	aaa	gaa	ctc	ttg	ttg	aac	447
	60	Gly	Pro	Tyr	Cys	Gly	Ser	Met	Thr	Val	Pro	Lys	Glu	Leu	Leu	Leu	Asn	
	61		110					115					120					
	63															tct		495
	64		Ser	Glu	Val	Thr		Arg	Phe	Glu	Ser	_	Ser	His	Ile	Ser	_	
•	65	125					130					135					140	

RAW SEQUENCE LISTING DATE: 12/12/2001 PATENT APPLICATION: US/10/003,132 TIME: 14:26:53

Input Set : A:\00-62.txt

Output Set: N:\CRF3\12112001\1003132.raw

<i>c</i> 7																	543
67															tta		543
68 69	Arg	СТА	Pile	rea	145	THE	TAT	Ата	ser	150	ASP	HIS	PIO	ASP	Leu 155	TTG	
71	202	tat	tta	m = =		act	200	aat	+ = +		220	202	a a a	t 2.0	agc	222	591
72		_	_	-	_	-	-			_	_		_		Ser		391
73	7 111.	Cys	пец	160	ALG	Ата	Ser	птэ	165	nea	шуз	1111	Giu	170	Set	цуз	
75	ttc	tac	cca		aat	tat	ana	αac		αca	ααα	aac	att.		ggg	aat	639
76		_		-		_	_	-	-	-		-			Gly		033
77	1110	Cys	175	niu	O L y	Cys	nrg	180	V CL	niu	OLI	sp	185	JCI	OLY	ASII	
79	atα	αta		ααa	tat	aαa	gat		tct	tta	tta	tac		act	gcc	atc	687
80															Ala		007
81	1100	190	1100	011	-1-	··- 9	195		501	DCu	Dea	200	_,5	111,4		110	
83	cat.		σσα	ata	att.	act.	-	σaa	cta	aat.	σσc		atc	agt.	gtg	ctt	735
84															Val		
85	205		1			210	F			- 1	215					220	
87		cac	aaa	aaa	atc		сαа	t.a.t.	gaa	ααα		cta	acc	aat.	ggt	-	783
88	_	_				_	_		_			_	_		Gly	-	, ••
89	Q 1 11			U -1	225	001	9	-1-	0	230		Lou			235	, 42	
91	ctt	t.ca	ασσ	σat.		tee	cta	t.ca	gac		сσа	t.t.t.	cta	ttt	acc	t.cc	831
92															Thr		00-
93				240	J.,			001	245		5			250		001	
95	aat.	aat.	tac		аσа	t.cc	t.t.a	aαt.		σаа	cat.	gac	aaa		atc	aga	879
96			_	_	-		-	-		-		_			Ile	_	0,5
97		1	255		5			260					265			5	
99	act	tet		t.ca	taa	саσ	t.ca		aat	σασ	aαt	σσα		caa	gtt	cac	927
100																His	32,
101		270				0	275			. 010		280	_	011	. ,		
103	t.aa			aac	caa	acc			cao	τ σας	: caa			t.ca	t.aa	gct	975
104																Ala	3,0
105	285			4 -1		290	-				295	_				300	
107			gac	agt	aσc			cac	aaa	. сса			r t.aa	cta	gag	atc	1023
108	_		-	-	-						_			_		Ile	
109		1	1126		305				-1-	310	_	0_0	E		315		
111	gat	tta	aaa	σασ			aaa	ata	aca			aσσ	acc	aca		tct	1071
112	-	_				-										Ser	
113			1	320	_	-1-	-1-		325	_			,	330	_		
115	aca	caq	tca			aac	ttt	tat			agt	ttt	. ata			ttc	1119
116									_	_	_			_		Phe	
117			335					340		-1-			345				
119	aaa	aac			tct	aaσ	t.aa			tat	aaa	ασa			aat	aat	1167
120						_		_								Asn	,
121	-1-	350				-10	355	_		-1-	-10	360					
123	σaa			ata	ttt	cag			tct	aac	ttt			сса	ata	caa	1215
124		_	_			-							_			Gln	
125	365					370	_				375	_				380	
128			ttc	atc	cct.			qta	qee	aσa			caa	att	gto	CCC	1263
129									_	_		-		_	-	Pro	
130					385					390	_		5		395		
132	cao	aca	taa	cac			ata	qcc	tta			gad	cto	att		tgc	1311
	,		- 23		9	-)		,	5		J - J				- د د	-) -	

RAW SEQUENCE LISTING DATE: 12/12/2001 PATENT APPLICATION: US/10/003,132 TIME: 14:26:53

Input Set : A:\00-62.txt

ľ.

Output Set: N:\CRF3\12112001\I003132.raw

122	a 1 .	ml		**! -	01		- 1 -		.	T	777	a 1	T	- 1 -	01	0	
133 134	GIn	Thr	Trp	H1S	GIN	Arg	шe	Ala	Leu 405	ьуs	vaı	GIU	Leu	410	Gly	Cys	
134	a 2 a	2++	202		aa+	22+	ant.	+ 02		a+ a	+ ~ ~	000	2 2 C		a art	022	1359
137															agt Ser		1333
138	GTII	116	415	GIII	GIY	ASII	ASP	420	ьeu	Val	тър	ALY	425	1111	261	GIII	
140	200	200		at t	toa	act	aan		ma a	σat.	παπ	aca		aca	agg	CCC	1407
141															Arg		1407
142	261	430	Jei	Val	JCI	1111	435	БуЗ	OLU	пор	Olu	440	110	1111	1119	110	
144	atc		tca	паа	даа	aca		aca	σσα	ata	aac		aca	acα	gtg	act	1455
145															Val		1133
146	445		001	014	014	450			011		455				,	460	
148		cca	tta	ata	ctc		att	atc	cta	ata	ttt	act	σσα	ato	ggg	atc	1503
149															Gly		
150					465					470			_		475		
152	ttt	gca	gcc	ttt	aga	aag	aag	aag	aag	aaa	gga	agt	ccg	tat	gga	tca	1551
153															Gly		
154				480	_	_	_	_	485	_	_			490	_		
156	gca	gag	gct	cag	aaa	aca	gac	tgt	tgg	aag	cag	att	aaa	tat	CCC	ttt	1599
157	Ala	Glu	Ala	Gln	Lys	Thr	Asp	Cys	Trp	Lys	Gln	Ile	Lys	Tyr	Pro	Phe	
158			495					500					505				
160	gcc	aga	cat	cag	tca	gct	gag	ttt	acc	atc	agc	tat	gat	aat	gag	aag	1647
161	Ala	Arg	His	Gln	Ser	Ala	Glu	Phe	Thr	Ile	Ser	Tyr	Asp	Asn	Glu	Lys	
162		510					515					520					
164		_			_		_				_	-	_	_	gat		1695
165		Met	Thr	Gln	Lys		Asp	Leu	Ile	Thr		Asp	Met	Ala	Asp		
166	525					530					535					540	
168															ggc		1743
169	Gln	Gln	Pro	Leu		Ile	Gly	Thr	GTA		Val	Thr	Arg	Lys	Gly	Ser	
170					545					550					555		1701
172															agc		1791
173 174	Thr	Pue	Arg	560	мет	Asp	Thr	Asp	565	GIU	GIU	Ата	СТА	570	Ser	THE	
176	a a t	aaa	~~~		a 2 a	+ = +	~~~	+ ~ ~		020	aaa	aaa	aaa	-	G2G	a a a	1839
177	_	-					-	_	_	_		-		-	cac His		1033
178	изр	Ата	575	СТУ	1113	TYT		580	FIO	GIII	пта	пта	585	птд	1113	GIU	
180	tac	aca		CCC	cta	aca	CCC		πaπ	CCC	αασ	tac		аса	ccc	atc	1887
181															Pro		1007
182	-1-	590	ЦСИ	110	ЦСИ	mu	595	110	Oru	110	OIU	600	mu		110	110	
184	at.a		caa	cac	at.a	ct.a		acc	cac	асσ	t.t.c		aca	caσ	agc	aac	1935
185															Ser		
186	605		5			610	,				615					620	
188		cqc	atc	cca	qqq	ccc	caq	ccc	qqc	cac	aaa	cac	tcc	ctc	tcc	tcq	1983
189															Ser		
190	-	-			625				-	630	-				635		
192	ggc	ggc	ttc	tcc	ccc	gta	gcg	ggt	gtg	ggc	gcc	cag	gac	gga	gac	tat	2031
193															Asp		
194	_	=		640				=	645	_			_	650	_		
196															cgg		2079
197	Gln	Arg	${\tt Pro}$	His	Ser	Ala	Gln	Pro	Ala	Asp	Arg	Gly	Tyr	Asp	Arg	Pro	

RAW SEQUENCE LISTING DATE: 12/12/2001 PATENT APPLICATION: US/10/003,132 TIME: 14:26:53

Input Set : A:\00-62.txt
Output Set: N:\CRF3\12112001\1003132.raw

200 aaa gct gtc agc gcc ctc gcc acc gaa agc gga cac cct gac tct cag 211 Lys Ala Val Ser Ala Leu Ala Thr Glu Ser Gly His Pro Asp Ser Gln 201 Lys Ala Val Ser Ala Leu Ala Thr Glu Ser Gly His Pro Asp Ser Gln 202 670 675 680 203 aag ccc cca acc cat ccc ggg acg agt ggc agc tat tct gcc ccc aga 205 Lys Pro Pro Thr His Pro Gly Thr Ser Asp Ser Tyr Ser Ala Pro Arg 206 685 690 695 700 208 gac tgc ctc aca ccc ctc aac cag acg gcc atg act gcc ctt ttg tga 2223 223 Asp Cys Leu Thr Pro Leu Asn Gln Thr Ala Met Thr Ala Leu Leu * 210 705 710 212 acacaatgtg aaagaagcat gctgtggtcca gagtgtgcgg gctgtcacaa ggcactgga 223 gaagggagc tgctggtcca gagtgtgcgt gtgtatcgaa ctgaaagca ttttaacatt 214 cttctcctgg aagaatgaa ttacttgaag catgaaaagc acaccagggt ggttgttat 215 ttagcaatta tgaagtgtgat tttaaaaaca agcaaagaaa caacacaggt ggttgttat 216 gtttccttag tctccacttc agagggggat gcgaagaaggt cggccagct ccggtgacca 217 tgaaggtggc acaggaatta cagtgtgaat ggctgtgtca gatgtttcg tacccagat 218 ttagtgtgat tccggtgtcc tctggaacaa attttctagac ttttctcaga agtagtacca 219 tttcgtgact tccgctgtc tctgaaaaac aaagttattt ggaacatgt catgcaaaa 220 tgatctgac caagtcaaa tacgagcttt ttactgac tttcttcaga agtagtacca 221 tcatttata agaaatgat ttcccctcaa ggaggcgtcg gaactgga acagtcacagaaag 222 acatcagctg tacctcatgc tcagtagttt ttatttgagt tttttttgag agtagtactac 223 ggagaattta acctctttg ccaaagaagga aagtgttgtg gagactgg aacagtcaca 224 ggaccaaaaa tttttttccc tgaagaagt attttagag ttttttttgag tttttttt
190
202 670 675 680 204 aag ccc cca acg cat ccc ggg acg agt gac agc tat tct gcc ccc aga 2175 205 Lys Pro Pro Thr His Pro Gly Thr Ser Asp Ser Tyr Ser Ala Pro Arg 206 685 690 690 695 700 2223 209 Asp Cys Leu Thr Pro Leu Asn Gln Thr Ala Met Thr Ala Leu Leu * 210 705 710 715 212 acacaatgtg aaagaagct gctgtggtac tgagcgtcgg gctgtcacaa ggcactggaa 2343 213 gaaggagcc tgctggtcca gagtgtgcgt gtgtatcgaa ctgaaaagca tttttaacatt 244 cttctcctgg aagaaatgaa ttacttgaag catgaaaaga acaccagggt ggttgtttat 214 cttctctgg aagaaatgaa ttacttgaag catgaaaaga acaccagggt ggttgtttat 215 ttagcaatta tgactgtagg tttaaaaaca agcaaagag acaccagggt ggttgttata 216 ttagcaatta tgactgtagg tttaaaaaaca agcaaagag cagccacct ccggtgaca 2463 217 tgaaggtggc acaggaata cagtgtggat gggaagagg cggccagct ccggtgaca 2523 218 taaaaataatt gctgaggtca gacgccacaa ttttcagac tttctcaga agtgacact 2523 218 ttacgtgact tccgctgtcc tctgaaaaac aaagttattt ggaacatgtt catgcaaaag 2643 219 tttcttaga ccagtcaaa tcgagcttt ctactgacat ggaactgtt gaaactgat 2643 210 tgattctgac caagtcaaa tcgagcttt ctactgacat ggaactgtt gaaactgat 2643 211 ctattitata agaaatgat ttcccctcaa ggaggggtt gtattatca 2643 212 tgattctgac caagtcaaa tcgagcttt tctactgacat gaaactgtt gaaactgac 2703 212 cattitata agaaatgat ttcccctcaa ggaggggtt gtattatca 2823 222 acatcagctg tacctcatgc tcagtagttt ttatttggt ttctttttgg agttaacta 2823 223 gggagatta acctcttttg ccaaagagg aagtgtgt gt tttttata tagaaatat 2943 224 ggaccaaaa ttttttccc tgaagaatg attataacc tatttgtgg gttattacat 2943 225 cctgtgaaat gtatatatgt taaaacaaca 226 gctggtaat gtggaggag agtggttac tttgtagag ttacatggaccaca 227 actaattgta ataaactatg ccaaacca 228 210> SEO ID No: 2 230 c211> LENGTH: 715 231 c212> TYPE: PRT 232 c213> ORGANISM: Homo sapiens 243 (400> SEOUENCE: 2 235 Met Val Pro Gly Ala Arg Gly Gly Gly Ala Leu Ala Arg Ala Ala Gly 240
205
205
206 685 690 695 700 208 gac tgc ctc acc acc cc ctc aac cag acg gcc atg act gcc ctt ttg tga 2223 209 Asp Cys Leu Thr Pro Leu Asn Gln Thr Ala Met Thr Ala Leu Leu * 705 710 715 212 acacaatgtg aaagaagct gctgtggtac tgagggtcgg gctgtcaca gggcactggaa 2283 213 gaagggagcc tgctggtcac gagtgtgcgt gtgtatcgaa ctgaaagaa ctgaaagcat ttttaacatt 2343 214 cttctcctgg aagaaatgaa ttactgaag catgaaaagaa cacacacctca gcagctgcccc 2463 215 ttagaagtggc acaggaatta cagtgtgaat ggcagaagagt cggccacat caggacgcccc 2463 216 gtttccttag tctccacttc agagggggat ggcaagaagt cggcccaagt caggacgcccc 2523 217 tgaaggtggc acaggaatta cagtgtgaat ggctgtgtca gatgttttcg tacctcagat 2523 218 ttacttatta gcaagatta cagtgtgtat ggctgtgtca gttttctcaga agtagcact 2643 219 ttccttgac caagtctacaa tcgacgttt ctcatgacat gaactgttg gaacatgtt catgcaaaag 2703 221 ttatttata agaaatgatt tccccccaa ggaggcgct gtaattccag gaacatgt gacaacagtac 2823 221 tcattttata agaaatgatt ttccctcaa gaggtgttg gttttttttaa tagaaatat 2283 222 acataagtg gtagtagtg gtagtagtgtg gttttactat 2883 223 ggaggatt
222 232 299
Asp Cys Leu Thr Pro Leu Asn Gln Thr Ala Met Thr Ala Leu Leu
210
213 gaaggaagc tgctggtcca gagttgcgt gtgtatcgaa ctgaaagcat ttttaacatt cttccctgg aagaaatgaa ttacttgaag catgaaaagca cacacagggt ggttgttat 2403
213 gaaggaagc tgctggtcca gagttgcgt gtgtatcgaa ctgaaagcat ttttaacatt cttccctgg aagaaatgaa ttacttgaag catgaaaagca cacacagggt ggttgttat 2403
214 cttctcctgg aagaaatgaa ttacttgaag catgaaaagc acaccagggt ggttgtttat 2403 215 ttagcaatta tgactgtaga tttaaaaaca agcaaagaaa caacacctca gcagctgcc 2463 216 gtttccttag tctccacttc agagggggt gcgaagaggt cggccagct ccggtgacca 2523 217 tgaaggtgg acaggaatta cagtgtgaat ggctgtgtca gatgttttcg tacctcagat 2523 217 tgaaggtgg acaggaatta cagtgtgaat ggctgtgtca gatgttttcg tacctcagat 2583 218 taaaaatatt gctgaggtca gacgccacaa ttttcatgac tttcttcaga agtagcacat 2643 219 tttcgtgact tccggtgtcc tctgaaaac aaagttatt ggaacatgtt catgcaaaag 2703 220 tgattctgac caagtctaaa tcgagctttt ctactgacat gaaactgtt gaaactgatc 2763 221 tcattttata agaaatgatt ttcccctcaa ggaggcgtct gtaattccag aacagtcag 2823 222 acatcagctg tacctcatgc tcagtagttt ttatttgagt ttcttttgtg gttattacat 2883 223 gggagatta acctcttttg ccaaagagg aagtgtgtg gttttttatacat 3003 225 cctgtgaaat gttatatatgt taaaaataat gggggtgtg gaggtgtg gttttttacatggcac 3063 226 gctggttagt gtggaggga agtggtttac ttttgtaggt ttactggcac 3123 2210 > SEQ ID No: 2 2 210 > SEQ ID No: 2 2 2213 > ORGANISM: Homo sapiens 2 2 2 30<
215
216 gtttccttag tctccactic agaggggat gcgaagaggt cggccagct ccggtgacca
2583 218 taaaaatatt gctgaggtca gacgccacaa ttttcatgac tttctctaga agtagcacat 2643 219 tttcgtgact tccgctgtcc tctgaaaaac aaagttatt ggacactgtt catgcaaaag 2703 220 tgattctgac caagtctaaa tcgaggcttt ctactgacat gaaactgttg gaaactgtt 2763 221 tcatttata agaaatgatt ttcccctcaa ggaggcgtct gtaattccag aacagtccag 2823 222 acatcagctg tacctcatgc tcagtagttt ttatttgagt ttcttttgtg agatactaat 2883 223 gggagattta acctcttttg ccaaaagagg aagtgtgtg gtttttttaa tagaaaatat 2943 224 ggaccaaaaa ttttttccc tgaagaatgt attataacc tatttgtgg gttattacat 3003 225 cctgtgaaat gtaatatagt taaaataatg ggggtgctg aaggtcatgg cagactagct 3063 226 gctggttagt gtggagggga agtggttac tttgtagag ttacatggt tattacact 303 227 actaattgta ataaactatg ccaaacca 3123 228 c210> SEQ ID NO: 2 230 <211> LENGTH: 715 231 <212> TYPE: PRT 232 <213> ORGANISM: Homo sapiens 244 <400> SEQUENCE: 2 235 Met Val Pro Gly Ala Arg Gly Gly Gly Ala Leu Ala Arg Ala Ala Gly 15 236 1 5 10 15 237 Arg Gly Leu Leu Ala Leu Leu La Ala Val Ser Ala Pro Leu Arg Leu 288 29
218
219 tttcgtgact tccgctgtcc tctgaaaaac aaagttattt ggaacatgtt catgcaaaag 2703 220 tgattctgac caagtctaaa tcgagctttt ctactgacat gaaactgttg gaaactgatc 2763 221 tcatttata agaaatgatt ttcccctcaa ggaggcgtct gtaattccag aacagtccag 2823 222 acatcagctg tacctcatgc tcagtagttt ttatttgagt ttcttttgtg agttaactat 2883 223 gggagattta acctcttttg ccaaaagaggg aagtgtgtgt gttttttaa tagaaaatat 2943 224 ggaccaaaaa tttttttccc tgaagaatgt attataaccc tatttgtgtg gttattacat 3003 225 cctgtgaaat gtatatatgt taaaataatg ggggtgctgg aaagtcatgg cagactagct 3063 226 gctggttagt gtggagggga agtggtttac tttgtagagt ttacatggtt ttatgcgcac 3123 227 actaattgta ataaactatg ccaaacca 3151 229 <210> SEQ ID NO: 2 230 <211> LENGTH: 715 231 <212> TYPE: PRT 232 <213> ORGANISM: Homo sapiens 234 <400> SEQUENCE: 2 235 Met Val Pro Gly Ala Arg Gly Gly Gly Ala Leu Ala Arg Ala Ala Gly 15 237 Arg Gly Leu Leu Ala Leu Leu Ala Val Ser Ala Pro Leu Arg Leu 288 20 25 30 239 Gln Ala Glu Glu Leu Gly Asp Gly Cys Gly His Leu Val Thr Tyr Gln 45 241 Asp Ser Gly Thr Met Thr Ser Lys Asn Tyr Pro Gly Thr Tyr Pro Asn 60 243 His Thr Val Cys Glu Lys Thr Ile Thr Val Pro Lys Gly Lys Arg Leu 65 70 75 80 245 Ile Leu Arg Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 95 247 Asp Tyr Leu Leu Phe Thr Ser Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248
220
221 tcatttata agaaatgatt ttcccctcaa ggaggcgtct gtaattccag aacagtccag 2823 222 acatcagctg tacctcatgc tcagtagttt ttatttgagt ttcttttgtg agttaactat 2883 223 gggagattta acctcttttg ccaaaagaggg aagtgtgtgt gttttttat tagaaaatat 2943 224 ggaccaaaaa ttttttccc tgaagaatgt attataaccc tatttgtgg gttattacat 3003 225 cctgtgaaat gtatatatgt taaaataatg ggggtgctgg aaggtcatgg cagactagct 3063 226 gctggttagt gtggagggga agtggtttac tttgtagagt ttacatggtt ttatgcgcac 3123 227 actaattgta ataaactatg ccaaacca 3123 228 <210 > SEQ ID NO: 2 230 <211 > LENGTH: 715 231 <212 > TYPE: PRT 232 <213 > ORGANISM: Homo sapiens 234 <400 > SEQUENCE: 2 235 Met Val Pro Gly Ala Arg Gly Gly Gly Ala Leu Ala Arg Ala Ala Gly 236 1 5 10 237 Arg Gly Leu Leu Ala Leu Leu Leu Ala Val Ser Ala Pro Leu Arg Leu 238 20 25 30 239 Gln Ala Glu Glu Leu Gly Asp Gly Cys Gly His Leu Val Thr Tyr Gln 240 35 40 25 50 60 241 Asp Ser Gly Thr Met Thr Ser Lys Asn Tyr Pro Gly Thr Tyr Pro Asn 242 50 55 60 243 His Thr Val Cys Glu Lys Thr Ile Thr Val Pro Lys Gly Lys Arg Leu 244 65 70 75 80 245 Ile Leu Arg Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 246 85 90 247 Asp Tyr Leu Leu Phe Thr Ser Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248 100 105 110
222 acatcagctg tacctcatgc tcagtagttt ttatttgagt ttcttttgtg agttaactat 2883 223 gggagattta acctcttttg ccaaagaggg aagtgtgtg gttttttaa tagaaaatat 2943 224 ggaccaaaa ttttttccc tgaagaatgt attataaccc tatttgtgtg gttattacat 3003 225 cctgtgaaat gtatatatgt taaaataatg ggggtgctgg aaggtcatgg cagactagct 3063 226 gctggttagt gtggagggga agtggtttac tttgtagagt ttacatggtt ttatgcgcac 3123 227 actaattgta ataaactatg ccaaacca 3123 229 <210> SEQ ID NO: 2 230 <211> LENGTH: 715 231 <212> TYPF: PRT 232 <213> ORGANISM: Homo sapiens 244 <00> SEQUENCE: 2 235 Met Val Pro Gly Ala Arg Gly Gly Gly Ala Leu Ala Arg Ala Ala Gly 15 237 Arg Gly Leu Leu Ala Leu Leu Leu Ala Val Ser Ala Pro Leu Arg Leu 238 20 25 30 249 Gln Ala Glu Glu Leu Gly Asp Gly Cys Gly His Leu Val Thr Tyr Gln 40 35 40 45 241 Asp Ser Gly Thr Met Thr Ser Lys Asn Tyr Pro Gly Thr Tyr Pro Asn 55 242 Asp Tyr Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 60 243 His Thr Val Cys Glu Lys Thr Ile Thr Val Pro Lys Gly Lys Arg Leu 65 70 75 80 245 Ile Leu Arg Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 90 95 247 Asp Tyr Leu Leu Phe Thr Ser Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248
223 gggagattta acctcttttg ccaaagaggg aagtgtgtgt gttttttaa tagaaaatat 2943 224 ggaccaaaaa tttttttccc tgaagaatgt attataaccc tatttgtgtg gttattacat 3003 225 cctgtgaaat gtatatatgt taaaataatg ggggtgctgg aaggtcatgg cagactagct 3063 226 gctggttagt gtggagggga agtggtttac tttgtagagt ttacatggtt ttatgcgcac 3123 227 actaattgta ataaactatg ccaaacca 3151 229 <210 > SEQ ID NO: 2 230 <211 > LENGTH: 715 231 <212 > TYPE: PRT 232 <213 > ORGANISM: Homo sapiens 234 <400 > SEQUENCE: 2 235 Met Val Pro Gly Ala Arg Gly Gly Gly Ala Leu Ala Arg Ala Ala Gly 236 1 5 10 15 237 Arg Gly Leu Leu Ala Leu Leu Leu Ala Val Ser Ala Pro Leu Arg Leu 238 20 25 30 239 Gln Ala Glu Glu Leu Gly Asp Gly Cys Gly His Leu Val Thr Tyr Gln 240 35 40 25 60 45 241 Asp Ser Gly Thr Met Thr Ser Lys Asn Tyr Pro Gly Thr Tyr Pro Asn 242 50 55 60 243 His Thr Val Cys Glu Lys Thr Ile Thr Val Pro Lys Gly Lys Arg Leu 244 65 70 75 80 245 Ile Leu Arg Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 246 85 90 95 247 Asp Tyr Leu Leu Phe Thr Ser Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248 100 105 110
224 ggaccaaaaa tttttttccc tgaagaatgt attataaccc tatttgtgtg gttattacat 3003 225 cctgtgaaat gtatatatgt taaaataatg ggggtgctgg aaggtcatgg cagactagct 3063 226 gctggttagt gtggagggga agtggtttac tttgtagagt ttacatggtt ttatgcgcac 3123 227 actaattgta ataaactatg ccaaacca 3151 229 <210 > SEQ ID No: 2 230 <211 > LENGTH: 715 231 <212 > TYPE: PRT 232 <213 > ORGANISM: Homo sapiens 234 <400 > SEQUENCE: 2 235 Met Val Pro Gly Ala Arg Gly Gly Gly Ala Leu Ala Arg Ala Ala Gly 236 1 5 10 15 237 Arg Gly Leu Leu Ala Leu Leu Ala Val Ser Ala Pro Leu Arg Leu 238 20 25 30 239 Gln Ala Glu Glu Leu Gly Asp Gly Cys Gly His Leu Val Thr Tyr Gln 240 35 40 45 241 Asp Ser Gly Thr Met Thr Ser Lys Asn Tyr Pro Gly Thr Tyr Pro Asn 242 50 55 60 243 His Thr Val Cys Glu Lys Thr Ile Thr Val Pro Lys Gly Lys Arg Leu 244 65 70 75 80 245 Ile Leu Arg Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 246 85 90 95 247 Asp Tyr Leu Leu Phe Thr Ser Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248 100 105 110
225
226 gctggttagt gtggaggga agtggtttac tttgtagagt ttacatggtt ttatgcgcac 3123 227 actaattgta ataaactatg ccaaacca 3151 229 <210> SEQ ID NO: 2 230 <211> LENGTH: 715 231 <212> TYPE: PRT 232 <213> ORGANISM: Homo sapiens 234 <400> SEQUENCE: 2 235 Met Val Pro Gly Ala Arg Gly Gly Gly Ala Leu Ala Arg Ala Ala Gly 236 1 5 10 15 237 Arg Gly Leu Leu Ala Leu Leu Ala Val Ser Ala Pro Leu Arg Leu 238 20 25 30 239 Gln Ala Glu Glu Leu Gly Asp Gly Cys Gly His Leu Val Thr Tyr Gln 240 35 40 40 45 241 Asp Ser Gly Thr Met Thr Ser Lys Asn Tyr Pro Gly Thr Tyr Pro Asn 242 50 55 60 243 His Thr Val Cys Glu Lys Thr Ile Thr Val Pro Lys Gly Lys Arg Leu 244 65 70 70 75 80 245 Ile Leu Arg Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 246 85 90 95 247 Asp Tyr Leu Leu Phe Thr Ser Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248 100 105 105
227 actaattgta ataaactatg ccaaacca 3151 229 <210> SEQ ID NO: 2 230 <211> LENGTH: 715 231 <212> TYPE: PRT 232 <213> ORGANISM: Homo sapiens 234 <400> SEQUENCE: 2 235 Met Val Pro Gly Ala Arg Gly Gly Gly Ala Leu Ala Arg Ala Ala Gly 236 1 5 10 15 237 Arg Gly Leu Leu Ala Leu Leu Leu Ala Val Ser Ala Pro Leu Arg Leu 238 20 25 30 239 Gln Ala Glu Glu Leu Gly Asp Gly Cys Gly His Leu Val Thr Tyr Gln 240 35 40 25 60 45 241 Asp Ser Gly Thr Met Thr Ser Lys Asn Tyr Pro Gly Thr Tyr Pro Asn 241 Asp Ser Gly Thr Met Thr Ser Lys Asn Tyr Pro Gly Thr Tyr Pro Asn 242 50 50 60 243 His Thr Val Cys Glu Lys Thr Ile Thr Val Pro Lys Gly Lys Arg Leu 244 65 70 70 75 80 245 Ile Leu Arg Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 246 85 90 95 247 Asp Tyr Leu Leu Phe Thr Ser Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248 100 100 105 105
229 <210> SEQ ID NO: 2 230 <211> LENGTH: 715 231 <212> TYPE: PRT 232 <213> ORGANISM: Homo sapiens 234 <400> SEQUENCE: 2 235 Met Val Pro Gly Ala Arg Gly Gly Gly Ala Leu Ala Arg Ala Ala Gly 236
231 <212> TYPE: PRT 232 <213> ORGANISM: Homo sapiens 234 <400> SEQUENCE: 2 235 Met Val Pro Gly Ala Arg Gly Gly Gly Ala Leu Ala Arg Ala Ala Gly 236 1 5 10 15 237 Arg Gly Leu Leu Ala Leu Leu Leu Leu Ala Val Ser Ala Pro Leu Arg Leu 238 25 30 25 30 239 Gln Ala Glu Glu Leu Gly Asp Gly Cys Gly His Leu Val Thr Tyr Gln 240 35 40 45 241 Asp Ser Gly Thr Met Thr Ser Lys Asn Tyr Pro Gly Thr Tyr Pro Asn 242 50 55 60 243 His Thr Val Cys Glu Lys Thr Ile Thr Val Pro Lys Gly Lys Arg Leu 244 65 70 70 75 80 245 Ile Leu Arg Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 246 85 90 95 247 Asp Tyr Leu Leu Phe Thr Ser Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248 100 100 100 100 100 100 100 110
232 <213> ORGANISM: Homo sapiens 234 <400> SEQUENCE: 2 235
234
235 Met Val Pro Gly Ala Arg Gly Gly Gly Ala Leu Ala Arg Ala Ala Gly 236 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
236
237 Arg Gly Leu Leu Ala Leu Leu Leu Ala Val Ser Ala Pro Leu Arg Leu 30 239 Gln Ala Glu Glu Leu Gly Asp Gly Cys Gly His Leu Val Thr Tyr Gln 45 241 Asp Ser Gly Thr Met Thr Ser Lys Asn Tyr Pro Gly Thr Tyr Pro Asn 55 243 His Thr Val Cys Glu Lys Thr Ile Thr Val Pro Lys Gly Lys Arg Leu 70 244 65 245 Ile Leu Arg Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 95 246 Asp Tyr Leu Leu Phe Thr Ser Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248
238
239 Gln Ala Glu Glu Leu Gly Asp Gly Cys Gly His Leu Val Thr Tyr Gln 240
240
241 Asp Ser Gly Thr Met Thr Ser Lys Asn Tyr Pro Gly Thr Tyr Pro Asn 242 50 55 55 70 60 60 243 His Thr Val Cys Glu Lys Thr Ile Thr Val Pro Lys Gly Lys Arg Leu 244 65 70 75 75 80 80 245 Ile Leu Arg Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 246 85 70 85 90 95 95 247 Asp Tyr Leu Leu Phe Thr Ser Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248 100 100 100 100 100 100 100 100 100 10
242 50 55 60 243 His Thr Val Cys Glu Lys Thr Ile Thr Val Pro Lys Gly Lys Arg Leu 244 65 70 75 80 245 Ile Leu Arg Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 246 85 90 95 247 Asp Tyr Leu Leu Phe Thr Ser Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248 100 105 110
243 His Thr Val Cys Glu Lys Thr Ile Thr Val Pro Lys Gly Lys Arg Leu 244 65 70 75 80 245 Ile Leu Arg Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 246 85 90 95 247 Asp Tyr Leu Leu Phe Thr Ser Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248 100 105 110
244 65 70 75 80 245 Ile Leu Arg Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 246 85 90 95 247 Asp Tyr Leu Leu Phe Thr Ser Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248 100 105 110
245 Ile Leu Arg Leu Gly Asp Leu Asp Ile Glu Ser Gln Thr Cys Ala Ser 246 85 90 95 247 Asp Tyr Leu Leu Phe Thr Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248 100 105 110
246 85 90 95 247 Asp Tyr Leu Leu Phe Thr Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248 100 105 110
247 Asp Tyr Leu Leu Phe Thr Ser Ser Ser Asp Gln Tyr Gly Pro Tyr Cys 248 100 105 110
248 100 105 110
249 Gly Ser Met Thr Val Pro Lys Glu Leu Leu Leu Asn Thr Ser Glu Val
250 115 120 125
251 Thr Val Arg Phe Glu Ser Gly Ser His Ile Ser Gly Arg Gly Phe Leu
252 130 135 140

RAW SEQUENCE LISTING DATE: 12/12/2001 PATENT APPLICATION: US/10/003,132 TIME: 14:26:53

Input Set : A:\00-62.txt
Output Set: N:\CRF3\12112001\I003132.raw

253		Thr	Tyr	Ala	Ser		Asp	His	Pro	Asp		Ile	Thr	Cys	Leu	Glu
254	145	_				150		_	_		155					160
255	Arg	Ala	Ser	His		Leu	Lys	Thr	Glu			Lys	Phe	Cys		Ala
256	~ 7	_	_	_	165		-1	_		170		_			175	
257	GIY	Cys	Arg	_	vaı	АТА	GIY	Asp		ser	Gly	Asn	Met		Asp	Gly
258	_	_	-	180	_	_		_	185			3	•	190		
259	Tyr	Arg	_	Tnr	ser	ьeu	ьeu	_	гàг	Ата	Ата	тте		Ala	GIŸ	TTE
260	т1.	7 J	195	<i>α</i> 1	T 4	~1	<i>α</i> 1	200	71 -	a	17_ 1	T	205	3	T	0 1
261 262	тте	210	ASP.	GIU	ьeu	сту	215	GIII	тте	ser	val	220	GIN	Arg	rys	СТА
263	TIO		λνα	marr	Clu	C1 v		Tou	λla	λαν	C111		T 011	Ser	7 ~~	7.00
264	225	261	AIG	тут	GIU	230	116	ьеи	Ата	ASII	235	Val	ьеи	ser	Arg	240
265		Ser	T.011	Ser	Δen	-	Δra	Dhe	T.011	Dhe		Sar	Δen	Gly	Cve	
266	OLY	DCI	пси	JCI	245	цуз	nig	1 110	пси	250	1111	Ser	ASII	GLY	255	2CT
267	Ara	Ser	Leu	Ser		Glu	Pro	Asp	Glv		Tle	Ara	Ala	Ser		Ser
268	9			260		014			265	0		9		270	DCI	DCI
269	Trp	Gln	Ser		Asn	Glu	Ser	Glv		Gln	Val	His	Trp		Pro	Gly
270	•		275		-			280					285			1
271	Gln	Ala	Arg	Leu	Gln	Asp	Gln	Gly	Pro	Ser	Trp	Ala	Ser	Gly	Asp	Ser
272		290	_			_	295	•			-	300		-	-	
273	Ser	Asn	Asn	His	Lys	Pro	Arg	Glu	Trp	Leu	Glu	Ile	Asp	Leu	Gly	Glu
274	305					310					315					320
275	Lys	Lys	Lys	Ile	Thr	Gly	Ile	Arg	Thr	Thr	Gly	Ser	Thr	Gln	Ser	Asn
276					325					330					335	
277	Phe	Asn	Phe	_	Val	Lys	Ser	Phe		Met	Asn	Phe	Lys	Asn	Asn	Asn
278				340					345					350		
279	Ser	Lys	-	Lys	Thr	\mathtt{Tyr}	Lys	_	Ile	Val	Asn	Asn		Glu	Lys	Val
280	_,		355	_	_	_	_,	360	_	_	-		365	_		=
281	Pne		GIĀ	Asn	ser	Asn		Arg	Asp	Pro	Val		Asn	Asn	Phe	IIe
282	Dmo	370	T1.	17 o 1	» l »	3	375	37a 3	3	17-1	77 a 1	380	a 1	m1	m	TT -
283 284	385	PLO	ше	Val	Ата	390	туг	val	Arg	vaı	395	Pro	GIN	Thr	ттр	
285		λκα	Tlo	λla	Lou		Va 1	Clu	LOU	т1 о		Crrc	Cln	Ile	mh x	400
286	GIII	Ary	116	Ата	405	пуз	Val	GIU	ьеu	410	СТУ	Cys	GIII	TTE	415	GIII
287	Glv	Asn	Asn	Ser		Val	Trn	Δra	T.vc		Sar	Gln	Sar	Thr		Val
288	0-1	11011	nop.	420	пси	, ar		1119	425	T 111	JCI	OIII	Jer	430	Jei	Val
289	Ser	Thr	Lvs		Glu	Asp	Glu	Thr		Thr	Ara	Pro	Tle	Pro	Ser	Glu
290			435	-1-		1		440			5		445			
291	Glu	Thr	Ser	Thr	Gly	Ile	Asn	Ile	Thr	Thr	Val	Ala	Ile	Pro	Leu	Val
292		450			•		455					460				
293	Leu	Leu	Val	Val	Leu	Val	Phe	Ala	Gly	Met	Gly	Ile	Phe	Ala	Ala	Phe
294	465					470			_		475					480
295	Arg	Lys	Lys	Lys	Lys	Lys	Gly	Ser	Pro	Tyr	Gly	Ser	Ala	Glu	Ala	Gln
296					485					490					495	
297	Lys	Thr	Asp		Trp	Lys	Gln	Ile		Tyr	Pro	Phe	Ala	Arg	His	Gln
298				500					505					510		
300	Ser	Ala		Phe	Thr	Ile	Ser		Asp	Asn	Glu	Lys		Met	Thr	Gln
301	_	_	515	_			_	520					525			
302	Lys	Leu	Asp	Leu	ITe	Thr	Ser	Asp	Met	Ala	Asp	Tyr	Gln	Gln	Pro	Leu



Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY DATE: 12/12/2001 PATENT APPLICATION: US/10/003,132 TIME: 14:26:54

Input Set : A:\00-62.txt

Output Set: N:\CRF3\12112001\I003132.raw

```
L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:921 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
\texttt{L:973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9}
L:975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:1047\ M:341\ W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:1049 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:1091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1093 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1120\ M:341\ W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
\texttt{L:}1132~\texttt{M:}341~\texttt{W:} (46) "n" or "Xaa" used, for SEQ ID#:12
L:1133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
```

VERIFICATION SUMMARY

DATE: 12/12/2001

PATENT APPLICATION: US/10/003,132

TIME: 14:26:54

Input Set : A:\00-62.txt

Output Set: N:\CRF3\12112001\I003132.raw

L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:1160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:1161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:1162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13